

I CLAIM:

1. A composition comprising a glycoprotein matrix bound to an ubiquinone.
2. A composition as described in Claim 1 wherein said ubiquinone is CoQ₁₀.
3. A composition as described in Claim 1 wherein said ubiquinone is present in an amount between about 5% and 15% by weight of said composition.
4. A composition as described in Claim 1 wherein the ratio of said glycoprotein matrix to said ubiquinone is between about 1:1 to about 10:1.
5. A composition as described in Claim 1 further comprising microorganisms.
6. A composition as described in Claim 1 further comprising a bioflavanoid.
7. A composition as described in Claim 6 wherein said bioflavanoid is hesperidin.
8. A composition as described in Claim 5 wherein said microorganisms include yeast.
9. A composition as described in Claim 8 wherein said yeast include *Saccharomyces cervisiae*.
10. A composition as described in Claim 5 wherein said microorganisms include bacteria.
11. A composition as described in Claim 10 wherein said bacteria comprises bacteria within genus *Lactobacillus*.
12. A composition as described in Claim 11 wherein said bacteria includes *Lactobacillus acidophilus* or *Bacterium bifidus*.

090000-00757222-00

13. A composition as described in Claim 5 wherein said microorganisms include yeast and bacteria.
14. A nutritional supplement comprising an ubiquinone bound by a glycoprotein matrix.
15. A method of preparing an ubiquinone-containing composition comprising binding a glycoprotein matrix to at least one ubiquinone.
16. A method as described in Claim 15 wherein said ubiquinone is CoQ₁₀.
17. A method as described in Claim 15 wherein said binding comprises contacting said ubiquinone to a glycoprotein producing microorganism under conditions wherein said microorganism produces said glycoprotein matrix.
18. A method as described in Claim 17 wherein said microorganisms produce said glycoprotein matrix in a microorganism solution.
19. A method as described in Claim 18 wherein said microorganism solution comprises amino acids.
20. A method as described in Claim 19 wherein the ratio of said amino acids in the microorganism solution to said ubiquinone is approximately 2:1.
21. A method as described in Claim 18 wherein a proteolytic enzyme is added to said microorganism solution after said microorganisms have produced at least some of said glycoprotein matrix.
22. A method as described in Claim 21 wherein said proteolytic enzyme is selected from the group consisting of, papain, bromelain, pepsin or fungal protease.
23. A method as described in Claim 18 wherein said microorganism solution comprises a bioflavanoid.
24. A method as described in Claim 23 wherein said bioflavanoid includes hesperidin.

00757222-00000
25. A method as described in Claim 17 wherein said microorganisms include yeast.

26. A method as described in Claim 25 wherein said yeast include *Saccharomyces cervisiae*.

27. A method as described in Claim 18 wherein said microorganism solution comprises a nutritional yeast.

28. A method as described in Claim 27 wherein said nutritional yeast comprises inactive baker's yeast or inactive brewer's yeast.

29. A method as described in Claim 18 wherein said microorganism solution comprises a carbohydrate.

30. A method as described in Claim 29 wherein said carbohydrate is a monosaccharide, disaccharide, oligosaccharide, or polysaccharide.

31. A method as described in Claim 30 wherein said carbohydrate is selected from the group consisting of maltose, gum acacia, or a combination thereof.

32. A method as described in Claim 18 wherein said microorganism solution comprises soy flour.

33. A method as described in Claim 32 wherein said soy flour includes non-GMO soy flour.

34. A method as described in Claim 17 wherein said microorganisms include bacteria.

35. A method as described in Claim 34 wherein said bacteria include bacteria of genus *Lactobacillus*.

36. A method as described in Claim 35 wherein said bacteria include *Lactobacillus acidophilus* or *Bacterium bifidus*.

37. A method as described in Claim 18 wherein said microorganism solution is dehydrated after said production of glycoprotein matrix.

38. A method as described in Claim 18 wherein said microorganism solution is homogenized after said production of glycoprotein matrix.

39. A method as described in Claim 37 wherein said microorganisms are heat deactivated before said dehydrating.

40. A method of improving bioactivity of an ubiquinone comprising binding glycoprotein matrix to said ubiquinone.

41. A method as described in Claim 40 wherein said binding comprises contacting said ubiquinone to a glycoprotein producing microorganism under conditions wherein said microorganism produces said glycoprotein matrix.

42. A method of improving stability of an ubiquinone comprising binding glycoprotein matrix to said ubiquinone.

43. A method as described in Claim 42 wherein said binding comprises contacting said ubiquinone to a glycoprotein producing microorganism under conditions wherein said microorganism produces said glycoprotein matrix.

44. A method of delivering an ubiquinone to a host comprising binding said ubiquinone with a glycoprotein matrix to form a bound ubiquinone-containing composition and administering said ubiquinone-containing composition to said host.

45. A method as described in Claim 44 wherein said host is a mammal.

46. A method as described in Claim 45 wherein said host is human.

47. A method as described in Claim 44 wherein said ubiquinone is CoQ₁₀.

48. A method as described in Claim 44 wherein said binding comprises contacting said ubiquinone compound to a glycoprotein producing microorganism under conditions wherein said microorganism produces said glycoprotein matrix.